

09/046840Search results  
for Page #18**WEST**[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)

Your wildcard search against 2000 terms has yielded the results below

Search for additional matches among the next 2000 terms

starting with: CELL\$(CELLOSKIN).P28-P88,P90-P91,P23-P27,P20-P22,P1-P18,P19-P19.

**Search Results -**

Terms	Documents
AAV near5 retrovir\$ near5 vector\$ and packaging near cell\$	30

US Patents Full-Text Database  
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 IBM Technical Disclosure Bulletins

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Today's Date: 11/7/2001

DB Name	Query	Hit Count	Set Name
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	AAV near5 retrovir\$ near5 vector\$ and packaging near cell\$	30	<u>L7</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	AAV near5 retrovir\$ near5 vector\$ near10 packaging	0	<u>L6</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	AAV near5 retrovir\$ near5 vector\$	81	<u>L5</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	adenovir\$ near5 vector\$ near10 retrovir\$	1731	<u>L4</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l1 and packaging	1	<u>L3</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l1 and packaging near cell\$	0	<u>L2</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	5650309 [pn]	3	<u>L1</u>



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Search for additional matches among the next 2000 terms

**Generate Collection****Search Results - Record(s) 1 through 30 of 30 returned.**

1. Document ID: US 20010031462 A1

L7: Entry 1 of 30

File: PGPB

Oct 18, 2001

PGPUB-DOCUMENT-NUMBER: 20010031462

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010031462 A1

TITLE: Novel compositions and methods of screening for B cell activity modulators

PUBLICATION-DATE: October 18, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Glynne, Richard	Palo Alto	CA	US	
Goodnow, Chris	Ainslie, ACT	CA	AU	
Mack, Davis	Menlo Park		US	

US-CL-CURRENT: 435/4; 536/24.1[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KIND](#) | [Draw Desc](#) | [Image](#)

2. Document ID: US 20010016192 A1

L7: Entry 2 of 30

File: PGPB

Aug 23, 2001

PGPUB-DOCUMENT-NUMBER: 20010016192  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20010016192 A1

TITLE: RECOMBINANT ADENOVIRAL VECTOR AND METHOD OF USE

PUBLICATION-DATE: August 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
GREGORY, RICHARD J.	CARLSBAD	CA	US	
WILLS, KEN N.	ENCINITAS	CA	US	
MANEVAL, DANIEL C.	SAN DIEGO	CA	US	

US-CL-CURRENT: 424/93.2; 424/93.6, 435/320.1, 435/455, 435/456,  
435/69.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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3. Document ID: US 20010006950 A1

L7: Entry 3 of 30 File: PGPB Jul 5, 2001

PGPUB-DOCUMENT-NUMBER: 20010006950  
PGPUB-FILING-TYPE: new-utility  
DOCUMENT-IDENTIFIER: US 20010006950 A1

TITLE: GENETIC VACCINE VECTOR ENGINEERING

PUBLICATION-DATE: July 5, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
PUNNONEN, JUHA	PALO ALTO	CA	US	
STEMMER, WILLEM P.C.	LOS GATOS	CA	US	
WHALEN, ROBERT G.	PARIS	CA	FR	
HOWARD, RUSSELL	LOS ALTOS HILLS		US	

US-CL-CURRENT: 514/44; 435/320.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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4. Document ID: US 20010006629 A1

L7: Entry 4 of 30 File: PGPB Jul 5, 2001

PGPUB-DOCUMENT-NUMBER: 20010006629  
PGPUB-FILING-TYPE: new-utility  
DOCUMENT-IDENTIFIER: US 20010006629 A1

TITLE: RECOMBINANT ADENOVIRAL VECTOR AND METHODS OF USE

PUBLICATION-DATE: July 5, 2001

INVENTOR- INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
GREGORY, RICHARD J.	CARLSBAD	CA	US	
WILLS, KEN N.	ENCINITAS	CA	US	
MANEVAL, DANIEL C.	SAN DIEGO	CA	US	

US-CL-CURRENT: 424/93.1; 424/93.2, 424/93.6, 435/320.1, 514/44

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [HTML](#) | [Drawn Desc](#) | [Image](#)

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5. Document ID: US 6312957 B1  
L7: Entry 5 of 30 File: USPT Nov 6, 2001  
US-PAT-NO: 6312957  
DOCUMENT-IDENTIFIER: US 6312957 B1

TITLE: Genetic modification of primate hemopoietic repopulating stem cells

DATE-ISSUED: November 6, 2001

INVENTOR- INFORMATION:

NAME	CITY	STATE ZIP	CODE	COUNTRY
Einerhand; Markus Peter	Amsterdam			NLX
Wilhelmus				
Valerio; Domenico	Leiden			NLX

US-CL-CURRENT: 435/456; 435/440

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [HTML](#) | [Drawn Desc](#) | [Image](#)

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6. Document ID: US 6312683 B1  
L7: Entry 6 of 30 File: USPT Nov 6, 2001

US-PAT-NO: 6312683  
DOCUMENT-IDENTIFIER: US 6312683 B1

TITLE: Equine infectious anemia virus vectors

DATE-ISSUED: November 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP CODE	COUNTRY
Kingsman; Alan John	Oxon		GBX
Carroll; Miles William	Oxon		GBX
Rohll; Jonathan	Berkshire		GBX
Mitrophanous; Kyriacos	Oxford		GBX
Kim; Narry	Seoul		KRX

US-CL-CURRENT: 424/93.2, 424/93.1, 424/93.21, 424/93.6,  
435/320.1, 435/325, 435/455, 435/69.1, 514/44, 536/23.1

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7. Document ID: US 6306650 B1

L7: Entry 7 of 30 File: USPT Oct 23, 2001

US-PAT-NO: 6306650  
DOCUMENT-IDENTIFIER: US 6306650 B1

TITLE: Nucleic acid molecule encoding a .beta.-erythroid kruppel-like factor that binds to a .delta.-globin promoter

DATE-ISSUED: October 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP CODE	COUNTRY
Townes; Tim M.	Birmingham	AL	
Donze; David	Silver Spring	MD	

US-CL-CURRENT: 435/325, 435/243, 435/320.1, 435/410, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [HTML](#) | [Drawn Desc](#) | [Image](#)

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8. Document ID: US 6300485 B1

L7: Entry 8 of 30 File: USPT Oct 9, 2001

US-PAT-NO: 6300485  
DOCUMENT-IDENTIFIER: US 6300485 B1

TITLE: Myosin IXa and cyclic nucleotide gated channel-15 (CNGC-15) polynucleotides, polypeptides, compositions, methods, and uses thereof

DATE-ISSUED: October 9, 2001

INVENTOR- INFORMATION:

NAME	CITY	STATE ZIP CODE	COUNTRY
Adams; Arwen E.	Oakland	CA	
Chiu; Choi Ying	Castro Valley	CA	
Duhl; David	Oakland	CA	
Gorman; Susan W.	Santa Monica	CA	
Leng; Song	Castro Valley	CA	
Sheffield; Val	Iowa City	IA	
Welch; Juliet	Kensington	CA	

US-CL-CURRENT: 536/23.1, 536/23.4, 536/24.1, 536/24.31

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [RIMIC](#) | [Drawn Desc](#) | [Image](#)

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9. Document ID: US 6210939 B1

L7: Entry 9 of 30 File: USPT Apr 3, 2001  
US-PAT-NO: 6210939  
DOCUMENT-IDENTIFIER: US 6210939 B1

TITLE: Recombinant adenoviral vector and methods of use

DATE-ISSUED: April 3, 2001

INVENTOR- INFORMATION:

NAME	CITY	STATE ZIP CODE	COUNTRY
Gregory; Richard J.	Carlsbad	CA	
Wills; Ken N.	Encinitas	CA	
Maneval; Daniel C.	San Diego	CA	

US-CL-CURRENT: 435/456, 435/252.3, 435/320.1, 435/363, 435/366,  
435/370, 435/371

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10. Document ID: US 6207455 B1

L7: Entry 10 of 30 File: USPT Mar 27, 2001

US-PAT-NO: 6207455  
DOCUMENT-IDENTIFIER: US 6207455 B1

TITLE: Lentiviral vectors

DATE-ISSUED: March 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chang; Lung-Ji	Gainesville	FL	32606-6939	

US-CL-CURRENT: 435/457; 435/320.1, 435/325, 435/363, 435/366,  
435/368, 435/369, 435/370, 435/371, 435/372, 435/455, 435/456

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11. Document ID: US 6197754 B1

L7: Entry 11 of 30 File: USPT Mar 6, 2001

US-PAT-NO: 6197754

DOCUMENT-IDENTIFIER: US 6197754 B1

TITLE: Suppression of tumor growth by a mini-E1A gene

DATE-ISSUED: March 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hung; Mien-Chie	Houston	TX		
Chen; Hua	Houston	TX		
Yu; Di-hua	Houston	TX		

US-CL-CURRENT: 514/44; 424/450, 424/93.2, 424/93.6

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [HTML](#) | [Drawn Desc](#) | [Image](#)

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12. Document ID: US 6187757 B1

L7: Entry 12 of 30 File: USPT Feb 13, 2001

US-PAT-NO: 6187757  
DOCUMENT-IDENTIFIER: US 6187757 B1

TITLE: Regulation of biological events using novel compounds

DATE-ISSUED: February 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Clackson; Timothy P.	Cambridge	MA		
Gilman; Michael Z.	Newton	MA		
Holt; Dennis A.	Royersford	PA		
Keenan; Terence P.	Cambridge	MA		
Rozamus; Leonard	Bedford	MA		
Yang; Wu	Plainsboro	NJ		

US-CL-CURRENT: 514/31; 435/325, 435/355, 435/372, 435/372.3,  
435/375

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13. Document ID: US 6171855 B1

L7: Entry 13 of 30 File: USPT Jan 9, 2001

US-PAT-NO: 6171855  
DOCUMENT-IDENTIFIER: US 6171855 B1

TITLE: Vectors

DATE-ISSUED: January 9, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Askari; Frederick K.	Ann Arbor	MI		

US-CL-CURRENT: 435/320.1; 435/325, 435/455, 435/70.1, 536/24.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [KMD](#) | [Draw Desc](#) | [Image](#)

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14. Document ID: US 6140484 A

L7: Entry 14 of 30 File: USPT Oct 31, 2000

US-PAT-NO: 6140484

DOCUMENT-IDENTIFIER: US 6140484 A

TITLE: Bax .omega. protein and methods

DATE-ISSUED: October 31, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP	CODE COUNTRY
Bitler; Catherine Mastroni	Menlo Park	CA	
Bowersox; Stephen Scott	Menlo Park	CA	
Crea; Roberto	San Mateo	CA	
Demo; Susan Dunham	San Francisco	CA	
Horne; William A.	San Diego	CA	
Zhou; Mei	Palo Alto	CA	

US-CL-CURRENT: 536/23.1; 435/320.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#)

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15. Document ID: US 6117680 A

L7: Entry 15 of 30 File: USPT Sep 12, 2000

US-PAT-NO: 6117680

DOCUMENT-IDENTIFIER: US 6117680 A

TITLE: Compositions and methods for regulation of transcription

DATE-ISSUED: September 12, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP	CODE COUNTRY
Natesan; Sridaran	Chestnut Hill	MA	
Gilman; Michael Z.	Newton	MA	

US-CL-CURRENT: 435/455; 435/235.1, 435/320.1, 435/325, 435/456,  
536/23.4

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#)

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16. Document ID: US 6110702 A

L7: Entry 16 of 30 File: USPT Aug 29, 2000

US-PAT-NO: 6110702  
DOCUMENT-IDENTIFIER: US 6110702 A

TITLE: PSA positive regulating (PSAR) sequences and uses thereof

DATE-ISSUED: August 29, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP CODE	COUNTRY
Pang; Shen	Van Nuys	CA	
Belldegrun; Arie S.	Los Angeles	CA	

US-CL-CURRENT: 435/69.1, 435/320.1, 435/455, 435/466, 435/70.1,  
536/24.1

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17. Document ID: US 6110666 A

L7: Entry 17 of 30 File: USPT Aug 29, 2000

US-PAT-NO: 6110666  
DOCUMENT-IDENTIFIER: US 6110666 A

TITLE: Locus control subregions conferring integration-site independent transgene expression abstract of the disclosure

DATE-ISSUED: August 29, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP CODE	COUNTRY
Grosveld; Franklin Gerardus	Rotterdam		NLX
Ellis; James	Toronto		CAX
Kioussis; Dimitris	London		GBX

US-CL-CURRENT: 435/6

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [KIND](#) | [Draw Desc](#) | [Image](#)

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18. Document ID: US 6037177 A

L7: Entry 18 of 30 File: USPT Mar 14, 2000

US-PAT-NO: 6037177  
DOCUMENT-IDENTIFIER: US 6037177 A

TITLE: Method for increasing the efficiency of recombinant AAV production

DATE-ISSUED: March 14, 2000

INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Snyder; Richard	Oakland	CA		

US-CL-CURRENT: 435/455; 435/320.1, 435/354, 435/357, 435/365,  
435/366, 435/369

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [KMD](#) | [Drawn Desc](#) | [Image](#)

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19. Document ID: US 5972899 A

L7: Entry 19 of 30 File: USPT Oct 26, 1999  
US-PAT-NO: 5972899  
DOCUMENT-IDENTIFIER: US 5972899 A

TITLE: Apoptosis induced by Shigella Ipab

DATE-ISSUED: October 26, 1999

INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zychlinsky; Arturo	New York	NY		
Chen; Yajing	Elmhurst	NY		

US-CL-CURRENT: 514/44; 424/93.2, 435/320.1, 435/455

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [KMD](#) | [Drawn Desc](#) | [Image](#)

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20. Document ID: US 5962320 A

L7: Entry 20 of 30 File: USPT Oct 5, 1999

US-PAT-NO: 5962320  
DOCUMENT-IDENTIFIER: US 5962320 A

TITLE: Engineered antigen presenting cells and methods for their use

DATE-ISSUED: October 5, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP CODE	COUNTRY
Robinson; William S.	Burlingame	CA	

US-CL-CURRENT: 435/366; 424/93.21, 435/325

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [KMD](#) | [Draw Desc](#) | [Image](#)

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21. Document ID: US 5958768 A

L7: Entry 21 of 30 File: USPT Sep 28, 1999  
US-PAT-NO: 5958768  
DOCUMENT-IDENTIFIER: US 5958768 A

TITLE: Chimeric antiviral agents comprising Rev binding nucleic acids and trans-acting ribozymes, and molecules encoding them

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP CODE	COUNTRY
Kraus; Gunter	Miami	FL	
Wong-Staal; Flossie	San Diego	CA	
Yu; Mang	San Diego	CA	
Yamada; Osamu	Kobe		JPX

US-CL-CURRENT: 435/372.3; 435/320.1, 435/325, 435/366, 435/455, 536/24.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [KMD](#) | [Draw Desc](#) | [Image](#)

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22. Document ID: US 5948640 A

L7: Entry 22 of 30 File: USPT Sep 7, 1999

US-PAT-NO: 5948640  
DOCUMENT-IDENTIFIER: US 5948640 A

TITLE: Mammalian additional sex combs (mammalian Asx) acts as a tumor suppressor

DATE-ISSUED: September 7, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP CODE	COUNTRY
Randazzo; Filippo M.	Emeryville	CA	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/455, 536/23.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [HTML](#) | [Draw Desc](#) | [Image](#)

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23. Document ID: US 5932210 A

L7: Entry 23 of 30 File: USPT Aug 3, 1999

US-PAT-NO: 5932210

DOCUMENT-IDENTIFIER: US 5932210 A

TITLE: Recombinant adenoviral vector and methods of use

DATE-ISSUED: August 3, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP CODE	COUNTRY
Gregory; Richard J.	Carlsbad	CA	
Wills; Ken N.	Encinitas	CA	
Maneval; Daniel C.	San Diego	CA	

US-CL-CURRENT: 424/93.2; 424/93.6, 435/320.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [HTML](#) | [Draw Desc](#) | [Image](#)

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24. Document ID: US 5914266 A

L7: Entry 24 of 30 File: USPT Jun 22, 1999

US-PAT-NO: 5914266

DOCUMENT-IDENTIFIER: US 5914266 A

TITLE: Mammalian sex comb on midleg (mammalian SCM) acts as a tumor suppressor

DATE-ISSUED: June 22, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Randazzo; Filippo	Emeryville	CA		

US-CL-CURRENT: 435/320.1, 536/23.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#)

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25. Document ID: US 5874556 A

L7: Entry 25 of 30 File: USPT Feb 23, 1999

US-PAT-NO: 5874556

DOCUMENT-IDENTIFIER: US 5874556 A

TITLE: Hybrid genes for use in the production of T.sub.H -independent cytotoxic T cells

DATE-ISSUED: February 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lupton; Stephen D.	Seattle	WA		
Allen; James M.	Seattle	WA		
Feldhaus; Andrew L.	Lynwood	WA		

US-CL-CURRENT: 536/23.1, 424/93.21, 424/93.71, 435/252.3,  
435/320.1, 435/363, 435/366, 435/372, 435/372.3, 435/69.1,  
435/69.5, 435/69.52, 435/69.7, 536/23.4, 536/23.52

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#)

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26. Document ID: US 5830755 A

L7: Entry 26 of 30 File: USPT Nov 3, 1998

US-PAT-NO: 5830755

DOCUMENT-IDENTIFIER: US 5830755 A

TITLE: T-cell receptors and their use in therapeutic and diagnostic methods

DATE-ISSUED: November 3, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nishimura; Michael	Rockville	MD		
Rosenberg; Steven A.	Potomac	MD		

US-CL-CURRENT: 435/325; 424/93.2, 435/320.1, 435/6, 435/69.1,  
435/7.23, 530/387.7, 536/23.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [HTML](#) | [Drawn Desc](#) | [Image](#)

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27. Document ID: US 5780447 A

L7: Entry 27 of 30 File: USPT Jul 14, 1998

US-PAT-NO: 5780447

DOCUMENT-IDENTIFIER: US 5780447 A

TITLE: Recombinant adeno-associated viral vectors

DATE-ISSUED: July 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nienhuis; Arthur W.	Memphis	TN		

US-CL-CURRENT: 514/44; 424/93.2, 424/93.21, 435/320.1, 435/325,  
435/375, 435/456, 435/457

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [HTML](#) | [Drawn Desc](#) | [Image](#)

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28. Document ID: US 5770690 A

L7: Entry 28 of 30 File: USPT Jun 23, 1998

US-PAT-NO: 5770690

DOCUMENT-IDENTIFIER: US 5770690 A

TITLE: Bax omega protein and methods

DATE-ISSUED: June 23, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP	CODE COUNTRY
Bitler; Catherine Mastroni	Menlo Park	CA	
Bowersox; Stephen Scott	Menlo Park	CA	
Crea; Roberto	San Mateo	CA	
Demo; Susan Dunham	San Francisco	CA	
Horne; William A.	San Diego	CA	
Zhou; Mei	Palo Alto	CA	

US-CL-CURRENT: 530/324; 530/329, 530/350

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [KMD](#) | [Draw Desc](#) | [Image](#)

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29. Document ID: US 5747292 A

L7: Entry 29 of 30 File: USPT May 5, 1998

US-PAT-NO: 5747292

DOCUMENT-IDENTIFIER: US 5747292 A

TITLE: Chimeric cytokine receptors in lymphocytes

DATE-ISSUED: May 5, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP	CODE COUNTRY
Greenberg; Philip D.	Mercer Island	WA	
Nelson; Brad H.	Seattle	WA	

US-CL-CURRENT: 435/69.7; 435/252.3, 435/320.1, 530/350,  
536/23.4

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [KMD](#) | [Draw Desc](#) | [Image](#)

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30. Document ID: US 5738852 A

L7: Entry 30 of 30 File: USPT Apr 14, 1998

US-PAT-NO: 5738852

DOCUMENT-IDENTIFIER: US 5738852 A

TITLE: Methods of enhancing antigen-specific T cell responses

DATE-ISSUED: April 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Robinson; William S.	Palo Alto	CA		
Chu; Keting	Palo Alto	CA		

US-CL-CURRENT: 424/199.1; 424/278.1, 424/93.2, 435/320.1,  
514/44

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File: USPT

Jul 22, 1997

DOCUMENT-IDENTIFIER: US 5650309 A

TITLE: Viral vectors

**DEPR:**

The term "biologically active nucleic acid sequence" refers to a nucleic acid which has the property of encoding or possessing a property which directs or permits an activity in a host cell. For instance, the nucleic acid optionally encodes proteins or catalytic nucleic acids which act upon the nucleic acid or the host cell upon transcription and/or translation and/or has sequences necessary for chromosomal integration into the host cell's genome, nucleic acid origins of replication, and sequences which permit packaging of the nucleic acid into a viral capsid.

**DEPR:**

The vectors are useful for introducing anti-viral genes into cells, and for spreading the anti-viral genes to other cells within a host upon infection by a virus or a class of viruses. The vectors have a genome containing a cellular transduction portion and an anti-viral portion. The cellular transduction portion contains sequences for integrating the vector into a host chromosome, and optionally contains additional sequences, such as those necessary for packaging the vector into a virus particle. In preferred embodiments, the cellular transduction portion of the virus does not replicate itself efficiently, requiring co-infection of the cell by a helper virus, or expression by the cell of viral regulators or components for productive infection. Any wild-type or modified viral genome which can incorporate the anti-viral portion can be used, AAV vectors are particularly preferred because they are able to encapsidate reasonably large amounts of DNA; they can be harvested and used in high concentrations for infection; they have no endogenous promoter activity, and they have no known mode of pathogenesis.

**DEPR:**

A replication defective rescuable genome of this invention can contain multiple defective genes. For example, Looney and Wong-Staal describe multiple gene mutants of HIV (PCT/US93/12088). Genes rendered inactive are capable of trans-complementation in order to render the construct rescuable. Genes which are not necessary for packaging may also be partially or completely deleted.

## DEPR:

Functions of HIV replication not supplied by trans-complementation which are necessary for replication of the replication-defective portion of the vector are present in the replication-defective rescuable portion of the vector. This includes, e.g., the TAR sequence, the sequences necessary for HIV packaging, the RRE sequence if the instability elements of the p17 gene of gag is included, and sequences encoding the polypurine tract.

## DEPR:

HIV sequences that contain these functions include a portion of the 5' long terminal repeat (LTR) and sequences downstream of the 5' LTR responsible for efficient packaging, i.e., through the major splice donor site ("MSD"), and the polypurine tract upstream of the 3' LTR through the U3R section of the 3' LTR. FIGS. 1 and 2 show the HIV genome and the location of relevant sequences.

## DEPR:

The sequences necessary for packaging are located in the U5 portion of the 5' LTR and downstream of it into part of p17, as well as the U3R portion of the 3' LTR.

## DEPR:

If anti-viral activity in any cell fails, the chimeric vector is designed to include a secondary protective function. Although the HIV portion of the vector is replication defective, it is rescuable by active HIV virus. Factors produced by the infective HIV supplement the replication functions missing from the vector. Consequently, the transduced cell transcribes the replication-defective HIV portion, interfering with the packaging of wild type HIV, and/or subsequently disseminating the anti-HIV genes contained within the replication-defective HIV portion of the vector to other target cells.